

HPA-2045/02 2 Channels Digital Audio Power Amplifier



Features:

- Digital power amplifier + switching mode power supply, high efficiency, small size, light weight
- Wide operating voltage range: 100-240 VAC (±10%) , work below 100 VAC requires a reduction in use
- Less heat, low working temperature, life span and reliability will be significantly improved
- Energy saving and environmental protection, saving operating costs
- Three working modes: stereo, mono, bridge
- Equipped with working mode switch
- Optional level gain switch)
- Two XLR audio input interfaces and two Speakon audio output interfaces
- XLR-M output connector for transmitting audio signal to the next power amplifier
- Perfect protection functions: short circuit, DC, over temperature protection, overload power control, etc.

Specifications:

Rated power (THD=1%, 1 kHz)	2×450 W (8 Ω/Stereo) 2×600 W (4 Ω/Stereo) 1×900 W (16 Ω/Bridge) 1×1200 W (8 Ω/Bridge)
RMS output voltage (THD=1%, 1 kHz)	60 V

Specifications:

Input sensitivity (Rated power, 1 kHz)	1 Vrms, 0.7 Vrms
THD+N (10% Rated power, Typical value)	0.05%
IMD-SMPTE (10% Rated power, Typical value)	0.05%
DIM30 (10% Rated power, Typical value)	0.05%
Crosstalk suppression (Below rated power, 20 Hz - 1 kHz)	≥75 dB
Frequency response (10% Rated output power, 8 Ω, 20 Hz - 20 kHz)	±0.2 dB
Input impedance	20 kΩ (Balanced) 10 kΩ (Unbalanced)
Damping coefficient (8 Ω, 20 Hz - 200 Hz)	≥1000
SNR (A weighted, 20 Hz - 20 kHz)	≥105 dB
Power supply	100-240 VAC, 50/60 Hz
Temperature	Working temperature: 0°C ~ +50°C Storage temperature: -20°C ~ +70°C
Humidity	Storage and use humidity: 10% ~ 90%
Color	Black
Box dimension (h × w × d, mm)	44 × 480 × 291
Product weight	5.9 kg

HPA-2045/02.....Digital Audio Power Amplifier (8 Ω, 450 W×2)

HPA-2080/02 2 Channels Digital Audio Power Amplifier



Features:

- Digital power amplifier + switching mode power supply, high efficiency, small size, light weight
- Wide operating voltage range: 100-240 VAC (±10%) , work below 100 VAC requires a reduction in use
- Less heat, low working temperature, life span and reliability will be significantly improved
- Energy saving and environmental protection, saving operating costs
- Three working modes: stereo, mono, bridge
- Equipped with working mode switch
- Optional level gain switch)
- Two XLR audio input interfaces and two Speakon audio output interfaces
- XLR-M output connector for transmitting audio signal to the next power amplifier
- Perfect protection functions: short circuit, DC, over temperature protection, overload power control, etc.

Specifications:

Rated power (THD=1%, 1 kHz)	2×800 W (8 Ω/Stereo) 2×1200 W (4 Ω/Stereo) 1×1600 W (16 Ω/Bridge) 1×2400 W (8 Ω/Bridge)
RMS output voltage (THD=1%, 1 kHz)	80 V

Specifications:

Input sensitivity (Rated power, 1 kHz)	1 Vrms, 0.7 Vrms
THD+N (10% Rated power, Typical value)	0.05%
IMD-SMPTE (10% Rated power, Typical value)	0.05%
DIM30 (10% Rated power, Typical value)	0.05%
Crosstalk suppression (Below rated power, 20 Hz - 1 kHz)	≥75 dB
Frequency response (10% Rated output power, 8 Ω, 20 Hz - 20 kHz)	±0.2 dB
Input impedance	20 kΩ (Balanced) 10 kΩ (Unbalanced)
Damping coefficient (8 Ω, 20 Hz - 200 Hz)	≥1000
SNR (A weighted, 20 Hz - 20 kHz)	≥105 dB
Power supply	100-240 VAC, 50/60 Hz
Temperature	Working temperature: 0°C ~ +50°C Storage temperature: -20°C ~ +70°C
Humidity	Storage and use humidity: 10% ~ 90%
Color	Black
Box dimension (h × w × d, mm)	44 × 480 × 291
Product weight	5.9 kg

HPA-160D/02 Digital Audio Power Amplifier



Features:

- Less heat, low working temperature, life span and reliability will be significantly improved.
- Energy saving and environmental protection, saving operating costs
- Compact and efficient combination of digital power amplifier and switching power supply
 Output power: 2×200 W (4Ω / 6Ω)
 2×160 W (8Ω)
 1×400 W (bridge/ Constant voltage)
 Freq. response: 20 Hz to 20 kHz (8Ω, ±0.5 dB)
 THD: < 0.04%
- Power supply: AC 100-240 V
- Operation mode: mono/ stereo/ bridge
- 2×SPEAKON socket for loudspeakers
- 2×RJ45 jack for digital audio input/output via Dante™ networking
- 1 Line In and 1 Line Out (Ø 6.4 mm phone jack)
- The user can access the IP address of power amplifier from web browser to set parameters and view device status, e.g. compressor, equalizer, DRC, etc.
- Perfect protection functions: short circuit protection, over temperature protection, DC protection, etc.

Specifications:

Rated power (THD=1%, 1 kHz)	2×200 W (4Ω / 6Ω) 2×160 W (8Ω) 1×400 W (bridge/ Constant voltage)
Crosstalk suppression	≥70 dB
Frequency response	20 Hz ~ 20 kHz (±0.5 dB)
THD	≤0.04%
S/N	≥95 dBA
Power supply	100-240 VAC, 50/60 Hz
Color	Black
Dimension (h × w × d, mm)	62×252×179
Product weight	1.7 kg

HPA-160D/02 Digital Audio Power Amplifier (200 W, supports Dante)

HCL-1200A Line Array Column Loudspeaker

Features:

- Compact design, natural and high- quality sound
- Built-in 8 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (8 Ω) power mode for higher output level
- Switchable Speech/Music mode
- Built-in 70V/100V transformer, plus 8 Ω direct capability
- Coverage pattern: Horizontal: 150°, Vertical: 20°
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with swivel (pan)/tilt wall bracket) or stand-mount



Overview:

HCL-1200A Line Array Column Loudspeaker, composed of eight full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1200A can be used for various applications such as in conference room, lecture hall, ballroom, auditorium and classroom. The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. A multi-way full range loudspeaker characterized with wider bandwidth, has the lowest frequency at 80 Hz. Default constant resistance mode (8 Ω) for higher output level.

HCL-1200A is versatile by accommodating different applications with enhanced mid-range output in Speech mode and more flat response in Music mode.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications:

Components	Eight 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: 20°
Sensitivity (2.83 V@1 m)	93 dB (speech mode) 89 dB (music mode)

Specifications:

Impedance	8 Ω
Power capacity (8 Ω)	200 W (800 W peak), 2 hrs 120 W (480 W peak), 100 hrs
Max. SPL	120 dB (speech mode) 113 dB (music mode)
70V/100V transformer taps	60 W, 30 W, 15 W, 7.5 W at 70V only, and 8 Ω thru, via switch
EQ	Speech v. Music: 2.5-4 dB (@2-5 kHz)
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Insert	Eight M6 swivel (pan)/tilt insert points on back panel
Mounting	Included swivel (pan) / tilt wall bracket provides continuously variable ±80 degree left-right swivel aiming, continuously adjustable ±15 degree tilt, as well as 5 degree fixed increment points within the range.
Dimensions (h × w × d)	620×102×155 mm
Weight	5.3 kg
Accessories	Swivel (pan)/tilt wall bracket

HCL-1200A_B..... Line Array Column Loudspeaker (8 Ω, 200 W, 70V/100V transformer & 8 ohm direct capability, black)

HCL-1200A_W..... Line Array Column Loudspeaker (8 Ω, 200 W, 70V/100V transformer & 8 ohm direct capability, white)

HCL-1400A Line Array Column Loudspeaker

Features:

- Compact design, natural and high- quality sound
- Built-in 16 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (8 Ω) power mode for higher output level
- Switchable Speech/Music mode
- Built-in 70V/100V transformer, plus 8 Ω direct capability
- Coverage pattern: Horizontal: 150°, Vertical: adjustable board/narrow
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with swivel (pan)/tilt wall bracket) or stand-mount

Overview:

HCL-1400A Line Array Column Loudspeaker, composed of sixteen full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1400A can be used for various applications such as in conference room, lecture hall, ballroom, auditorium and classroom. The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. A multi-way full range loudspeaker characterized with wider bandwidth, has the lowest frequency at 80 Hz. Default constant resistance mode (8 Ω) for higher output level.

HCL-1400A is versatile by accommodating different applications with enhanced mid-range output in Speech mode and more flat response in Music mode.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications:

Components	Sixteen 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: narrow: 15°, board: 40°
Sensitivity (2.83 V@1 m)	Narrow: 96 dB (speech mode) 93 dB (music mode) Broad: 93 dB (speech mode) 90 dB (music mode)
Impedance	8 Ω
Power capacity (8 Ω)	400 W (1600 W peak), 2 hrs 240 W (960 W peak), 100 hrs



Specifications:

Max. SPL	Narrow: 132 dB (speech mode) 129 dB (music mode) Broad: 129 dB(speech mode) 126 dB (music mode)
70V/100V transformer taps	120 W, 60 W, 30 W, 15 W at 70V only, and 8 Ω thru, via switch
EQ	Speech v. Music: 2.5-4 dB (@2-5 kHz)
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Insert	Ten M6 swivel (pan)/tilt insert points on back panel
Mounting	Included swivel (pan) / tilt wall bracket provides continuously variable ±80 degree left-right swivel aiming, continuously adjustable ±15 degree tilt, as well as 5 degree fixed increment points within the range.
Dimensions (h × w × d)	1180×102×155 mm
Weight	9.0 kg
Accessories	Swivel (pan)/tilt wall bracket

HCL-1400A_B.....Line Array Column Loudspeaker (8 Ω, 400 W, 70V/100V transformer & 8 ohm direct capability, black)
HCL-1400A_W.....Line Array Column Loudspeaker (8 Ω, 400 W, 70V/100V transformer & 8 ohm direct capability, white)

HCL-1400 Line Array Column Loudspeaker

Features:

- Compact design, natural and high- quality sound
- Built-in 16 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (8 Ω) power mode for higher output level
- Switchable Speech/Music mode
- Coverage pattern: Horizontal: 150°, Vertical: adjustable board/narrow
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with swivel (pan)/tilt wall bracket) or stand-mount

Overview:

HCL-1400 Line Array Column Loudspeaker, composed of sixteen full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1400 can be used for various applications such as in conference room, lecture hall, ballroom, auditorium and classroom. The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. A multi-way full range loudspeaker characterized with wider bandwidth, has the lowest frequency at 80 Hz. Default constant resistance mode (8 Ω) for higher output level.

HCL-1400A is versatile by accommodating different applications with enhanced mid-range output in Speech mode and more flat response in Music mode.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications:

Components	Sixteen 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: narrow: 15°, board: 40°
Sensitivity (2.83 V@1 m)	Narrow: 96 dB (speech mode) 93 dB (music mode) Broad: 93 dB (speech mode) 90 dB (music mode)
Impedance	8 Ω
Power capacity (8 Ω)	400 W (1600 W peak), 2 hrs 240 W (960 W peak), 100 hrs



Specifications:

Max. SPL	Narrow: 132 dB (speech mode) 129 dB (music mode) Broad: 129 dB(speech mode) 126 dB (music mode)
EQ	Speech v. Music: 2.5-4 dB (@2-5 kHz)
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Insert	Ten M6 swivel (pan)/tilt insert points on back panel
Mounting	Included swivel (pan) / tilt wall bracket provides continuously variable ±80 degree left-right swivel aiming, continuously adjustable ±15 degree tilt, as well as 5 degree fixed increment points within the range.
Dimensions (h x w x d)	1180×102×155 mm
Weight	9.0 kg
Accessories	Swivel (pan)/tilt wall bracket

HCL-1400_B.....Line Array Column Loudspeaker (8 Ω, 400 W, black)
HCL-1400_W.....Line Array Column Loudspeaker (8 Ω, 400 W, white)

HCL-1800U+HCL-1800D Line Array Column Loudspeaker

Features:

- Compact design, natural and high- quality sound
- Built-in 32 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (4 Ω) power mode for higher output level
- Switchable Speech/Music mode
- Coverage pattern: Horizontal: 150°, Vertical: adjustable board/narrow
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with swivel (pan)/tilt wall bracket)

Overview:

HCL-1800 Line Array Column Loudspeaker, composed of thirty-two full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1800 can be used for various applications such as in conference room, lecture hall, ballroom, auditorium and classroom. The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. A multi-way full range loudspeaker characterized with wider bandwidth, has the lowest frequency at 80 Hz. Default constant resistance mode (4 Ω) for higher output level.

HCL-1800 is versatile by accommodating different applications with enhanced mid-range output in Speech mode and more flat response in Music mode.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications:

Components	Thirty-two 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: narrow: 15°, board: 30°
Sensitivity (2 V@1 m)	Narrow: 95 dB (speech mode) 92 dB (music mode) Broad: 92 dB (speech mode) 89 dB (music mode)
Impedance	4 Ω
Power capacity (4 Ω)	800 W (3200 W peak), 2 hrs 480 W (1920 W peak), 100 hrs



Specifications:

Max. SPL	Narrow: 135 dB (speech mode) 132 dB (music mode) Broad: 132 dB(speech mode) 129 dB (music mode)
EQ	Speech v. Music: 2.5-4 dB (@2-5 kHz)
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Configuration	Two pieces (HCL-1800U (top half) and HCL-1800D (bottom half, with TAIDEN logo) half), each 1180 mm tall, connected together via Coupler Plate. Top/bottom orientation of each piece must be observed.
Insert	Eight M6 coupler plate insert points on back panel, Four M6 swivel (pan)/tilt insert points on coupler plate
Mounting	Included swivel (pan) / tilt wall bracket (must be mounted to threaded points on coupler plate) provides continuously variable ±80 degree left-right swivel aiming, continuously adjustable ±5 degree tilt, as well as 5 degree fixed increment points within the range.
Dimensions (h x w x d)	2360×102×155 mm
Weight	9.0 kg
Accessories	Swivel (pan)/tilt wall bracket, coupler plate

HCL-1800U_B + HCL-1800D_B.....Line Array Column Loudspeaker (4 Ω, 800 W, black)
HCL-1800U_W + HCL-1800D_W.....Line Array Column Loudspeaker (4 Ω, 800 W, white)

CBL-SPK Speaker Cable

Features:

- Audio cable for HCL-1200 series and HCL-1400 series Line Array Column Loudspeaker
- Length of per roll: 305 meter
- Weight of per roll: 14 kg
- Color: white



CBL-SPK.....Speaker cable (for HCL-1200 series and HCL-1400 series Line Array Column Loudspeaker, 305 m per roll, white, unit: meter)

CBL-SPK3 Speaker Cable

Features:

- Audio cable for HCL-1800U+HCL-1800D Line Array Column Loudspeaker
- Length of per roll: 150 meter
- Weight of per roll: 18 kg
- Color: white



CBL-SPK3.....Speaker cable (for HCL-1800U+HCL-1800D Line Array Column Loudspeaker, 150 m per roll, white, unit: meter)